

What is claimed is:

1. A complementary signal generator for outputting complementary
positive-phase and antiphase signals that vary between a first logical value and a
5 second logical value, comprising:

a signal forming unit for outputting a positive-phase intermediate signal
being in phase with an input signal varying between the first logical value and the
second logical value, and an antiphase intermediate signal antiphase to the input
signal; and

10 first connecting means for simultaneously transferring the second logical
value of the positive-phase intermediate signal and the first logical value of the
antiphase intermediate signal to a positive-phase signal output part and an
antiphase signal output part in synchronism with a state change of the input signal
from the first logical value to the second logical value.

15 2. The complementary signal generator according to claim 1, further
comprising driving means for canceling the transfer of the logical values by said first
connecting means in synchronism with a state change of the input signal from the
second logical value to the first logical value, and individually setting respective
20 states of the positive-phase signal output part and the antiphase signal output part
to the first logical value and the second logical value.

3. The complementary signal generator according to claim 1, further
comprising second connecting means for canceling the transfer of the logical values
25 by said first connecting means in synchronism with the state change of the input
signal from the second logical value to the first logical value, and simultaneously
transferring the first logical value of the positive-phase intermediate signal and the

second logical value of the antiphase intermediate signal to a positive-phase signal output part and an antiphase signal output part respectively.

4. The complementary signal generator according to any of claims 1,
5 wherein the first logical value corresponds to an "L" level, and the second logical value corresponds to an "H" level.

5. The complementary signal generator according to claim 3, wherein each
of the first and second connecting means has analog switches that comprise a pair of
10 parallel-connected P channel and N channel type FETs.